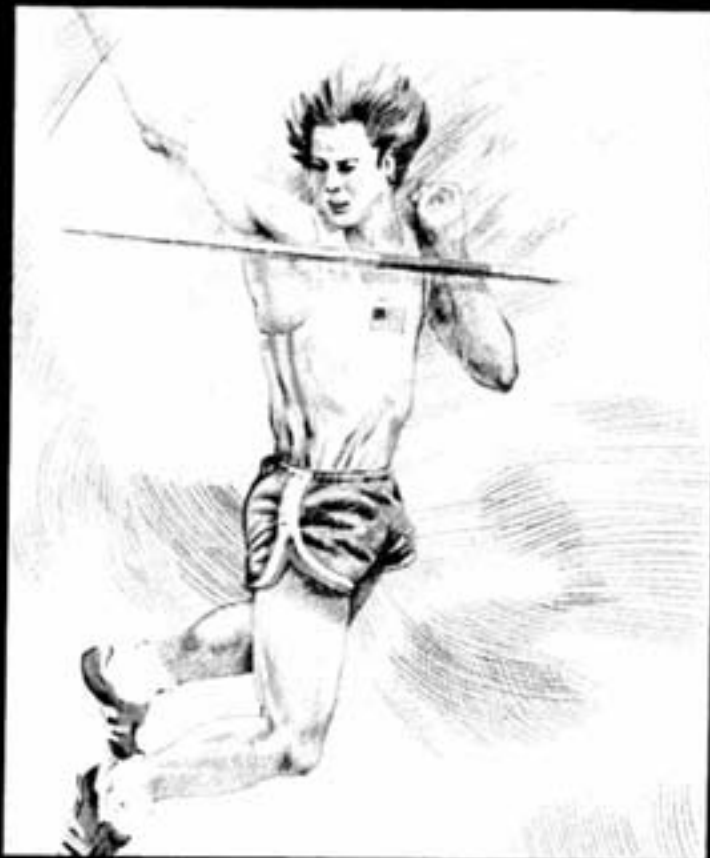


THE Triangle

JULY 1980



Publications Editor:
Peter vom Scheidt

Writer:
Meribeth Dingwall

Port Colborne Correspondent:
Dino Iannandrea



On the cover

This month's cover comes from the talented pen of Osmond Chan, a graphic artist with the city of Sudbury. Osmond's drawings depict the various aspects of the Pan American Junior Track and Field Championships which are being held in Sudbury starting August 29. Inco Metals is one of the major sponsors of the event. For further details turn to page 10.

July, 1980
Vol. 40 No. 7

Published by the public affairs department for employees of the Ontario division of Inco Metals Company, Copper Cliff, Ontario, P0M 1N0.
Phone 705-682-5425

Printed in Canada
by Journal Printing Company,
Sudbury, Ontario.

New \$25 million cobalt plant to be built in Port Colborne

Wint Newman, Inco's Ontario division president announced that an electro cobalt plant will be constructed at the company's Port Colborne nickel refinery.

The plant is expected to cost \$25 million to build and is expected to go on stream at the end of 1982 or early 1983. It will have an annual capacity of two million pounds of cobalt metal and will employ 30 to 40 people.

In announcing the new facility, Mr. Newman stated that the process research people at Port Colborne and Sheridan Park have developed and piloted a unique hydro-metallurgical technology to refine cobalt metal. This has resulted in improved recoveries of cobalt through a highly automated process.

A prototype unit has been operating for over a year and the product has been market tested successfully as a high purity metallic

cobalt round.

By way of some background the ore mined in Sudbury contains small but economically significant quantities of cobalt. As this metal has grown in importance and value the company has continually attempted to improve recoveries.

Cobalt oxide has been produced at the Port Colborne nickel refinery since 1947, and while it continues to be in demand in the marketplace, this product is being satisfied by current producers, of which Inco is one. There is, however, a growing demand for cobalt metal. With the addition of this new plant Inco will now be able to supply more of that market.

The electro cobalt metal produced at the new plant will be one of the purest forms of cobalt on the market and will complement Inco's other cobalt products, namely oxides and salts.



A committee has been formed to assist the public affairs department with its on-going communications programs with employees, mainly through the publications of The Triangle and IN Touch magazines. The committee consists of employees representing various areas and departments of Inco Metals Company and meets approximately once a month. Committee members would appreciate input from all employees in their area. Their names are: **Janie Therrien**, Levack; **Dale Muirhead**, Creighton; **John Lundrigan**, Frood-Stobie; **George Ingham**, Central Mills; **Rene Plouffe**, Copper Cliff mines; **Bob McFarlane**, Garson; **Harry Knight**, mines exploration; **Jack Dominique**, copper refinery; **Jack Parry**, nickel refinery; **Wayne Smith**, Copper Cliff smelter; **Ron McNair**, Iron Ore Recovery Plant; **Orval Couture**, matte processing; **Ray Sasseville**, transportation; **Jack Kenny**, industrial engineering; **Marilyn Harper**, central utilities; **Wilma Zahavich**, employee relations; **Gerry Martyn**, environmental control; **Jim Cox**, engineering; **Bernice Larouche**, safety and plant protection; **Jack Hynes**, central maintenance; **Garry Briscoe**, accounting; **Marg Donaldson**, computer services; **Murray Edward**, purchasing and warehousing.

Inco Employees Golf Tournament

The Inco Golf Tournament, held on Saturday, June 28, at the Idylwyld Golf Club, was a success with more than 250 people attending. There were two draws, one at 7:30 a.m., and one at 1:00 p.m., with people

competing for an opportunity to attend the President's Cup Golf Tournament to be held Saturday, August 23, in Port Colborne.

The top 28 winners and their wives were honored with prizes at a dinner

held at the Copper Cliff Club on Wednesday, July 2. The top four winners, Michael Curry, Brian Crowder, Hurly Hreljac, and Charles McCoy will play in the President's Cup, in August.



Phil Lindsay gets set to tee off as Bernard Prusiecki, Ed Lacoste and Don Dumontelle look on.



Giving Gary Cotnam, seated, a hand tabulating player's scores are, from left, Allan Cecchetto, Walter Chornenky and Jim Black.



Richard Myher putts out despite the good natured ribbing from his makeshift gallery of, from left, Ted Latreille, Kerry Size and Dale Brown.



Leo Laturnus compares score cards with Lenna Weatherill. But he's not saying who came out ahead.

Inco

Reserved Scholarship Winners 1980 - 81

A total of 15 students in the Sudbury area have won university scholarships awarded by Inco Metals Company. In all, 21 Inco Reserved Scholarships, 15 from the Sudbury area, three from the Manitoba division, and three from the Port Colborne - Sheridan Park - Toronto area are being awarded to children of Inco employees and pensioners in Canada for the 1980-81 academic year.

The scholarships are awarded for a maximum of four years of full-time study at university, and recipients are not limited to choice of university and field of study. Each scholarship provides annually the cost of tuition and associated academic fees up to a maximum of \$1500 and a personal grant of \$750. The scholarship also includes a cost-of-education supplement of \$300 and \$500, depending on the selected field of study, for the department of the university in which the student is enrolled.

The recipients of the scholarships are chosen by an independent selection committee made up of two principals from high schools in Thompson and Sudbury, and two former principals from Port Colborne and Sudbury.



Bob Boettcher, of Sudbury, is a graduate of Lockerby Composite Secondary School. He plans to attend the math co-op program at the University of Waterloo and would like to go on to be a professional soccer player. Bob's father, Wolf Boettcher, is a pensioner who retired from the Copper Cliff smelter.



Dave Jakelski, of Sudbury, is the son of Gunter Jakelski, a preventive maintenance co-ordinator at the Copper Cliff mines. Dave, who is a graduate of Lo-Ellen Park Secondary School, plans to attend the University of Waterloo to pursue the chemical engineering co-op program. Dave's hobbies include music, long distance running, and hiking.



Jeffrey Warren, of Lively, is the son of Bruce Warren, shop co-ordinator at the divisional machine shop. Jeffrey graduated from Lively District Secondary School, and plans to attend the University of Waterloo to take the applied chemistry co-op program. Jeffrey's hobbies include photography, electronics, water skiing and fishing.



Jane Byers, of Copper Cliff, is a graduate of Copper Cliff High School and the daughter of Graham Byers, who is the administration manager of the Canadian Alloys Division. Jane plans to enter the University of Western Ontario to study business administration. Her hobbies include swimming, horseback riding, skiing, and reading.



Aime Savard, of Azilda, is a graduate of Rayside Secondary School and plans to attend the University of Western Ontario to study physics and astronomy. Aime, who numbers scuba diving and guitar playing among his favorite hobbies, is the son of Armand Savard, a welder at the Clarabelle mill.



Adriane Egan, of Toronto, is a graduate of North Toronto Collegiate Institute and the daughter of John Egan, manager of cost engineering, Inco Limited, Toronto. Adriane will be pursuing a mathematics and science program in the Faculty of Arts and Science at the University of Toronto.



Richard Landry, of Sudbury, is a graduate of Macdonald-Cartier Secondary School, and plans to attend the University of Waterloo to study engineering. Richard is the son of Etienne Landry, who works in the maintenance department at the Clarabelle mill. Richard's hobbies include sports and reading science fiction novels.



Michael Puersten, of Copper Cliff, is the son of Wolfgang Puersten who is superintendent of engineering design in the engineering department. Michael graduated from Lively District Secondary School, and plans to attend the University of Guelph to study general science, followed by studies in veterinary medicine. Hobbies include golf and waterskiing.



Mininder Riar, of Sudbury, is a graduate of Lasalle Secondary School, and plans to attend the University of Toledo to study pharmacy. Mininder is the daughter of Inderjeet Riar, who is a senior estimator in the engineering department. Mininder has a wide range of hobbies including swimming, sewing, camping, and East Indian cultural dancing.



Mark Kamstra, of Sudbury, is the son of Peter Kamstra, a construction maintenance boss at the Copper Cliff smelter. Mark's hobbies include downhill skiing, sailing, and coin collecting. Although Mark's career goal has not been decided, he would like to work in a people-oriented occupation. He plans to attend Laurentian University to study general sciences.

Inco 1980 - 81 scholarship winners (continued . . .)



Margot Boyd, of Oakville, is a graduate of Oakville Trafalgar High School. She is the daughter of Philip Boyd, director of distribution and inventory management, Inco Limited, Toronto. Margot plans to attend the Faculty of Arts and Science at the University of Toronto, where she will major in economics.



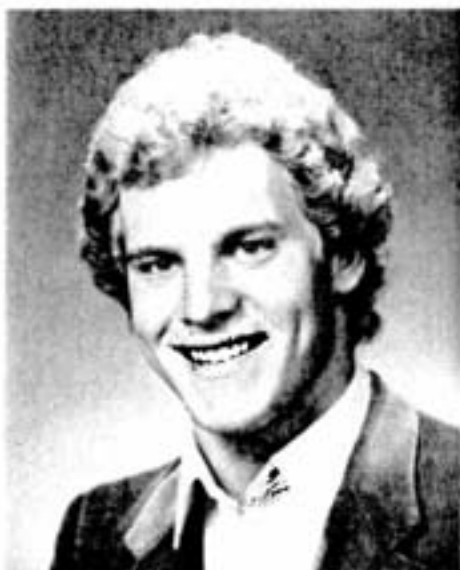
Deborah Ann Bruyns, of Lively, is a graduate of Marymount College, and plans to attend the University of Waterloo for her Bachelor of Science degree in pharmacy. She is the daughter of Enci DiFilippo, a foreman in the bucket shop at the Creighton mine complex. Deborah enjoys reading, and many sports including swimming, sailing, skiing and football.



Bill Sleeman, of Val Caron, is a graduate of Glebe Collegiate in Ottawa. He plans to attend the University of Waterloo to take the Bachelor of Mathematics co-op program. Bill's interests include sports, writing, and politics. Bill is the son of George Sleeman, a stope leader at Frood mine.



Peter Kurkimaki



Paul Kurkimaki

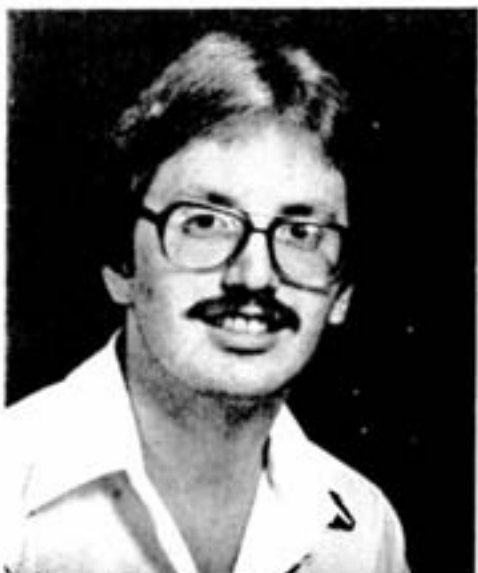
Twins Peter and Paul Kurkimaki, of Sudbury, are graduates of Sudbury Secondary School. Both boys enjoy music, cars and sports. Peter has a love for foreign cars in particular. Paul plans to attend the University of Toronto to study pharmacy, while Peter intends to go to the University of Guelph to pursue the Bachelor of Science program. The twin's mother, Lily Kurkimaki, is a secretary in the mines exploration department.



Johannes Schade, of Oakville, is a graduate of St. Michael's Choir School in Toronto. Johannes is the son of Johannes Schade, who is senior vice-president of marketing, Inco Limited, Toronto. Johannes plans to pursue metallurgical engineering at the University of Toronto.



Beverly Baxter, of Sudbury, is the daughter of Cecil Baxter, who is a metallurgist in the engineering department. Beverly graduated from Lockerby Composite Secondary School and plans to attend Guelph University for her Bachelor of Science, Majoring in biology. Beverly would like to become a veterinarian. Her hobbies include showing her horse in competition and doing volunteer work with the Anglican Church.



Michael Walter, of Sudbury, is the son of George Walter, a hoistman at the Creighton mine complex. Michael, who graduated from St. Charles College, plans to study marine biology at the University of Guelph. Michael's interests include bicycling, chess, fishing and hunting.

— Appointments —

Ronald Bailey, crushing plant foreman, Frood-Stobie mill

Fernand Beauchamp, preventative maintenance co-ordinator, Garson mine

Guy Beland, specialist assistant, central maintenance

Darl Bolton, agricultural technician, Copper Cliff

Donald Bradley, director of maintenance, Copper Cliff

Gerald Buchanan, safety foreman, Creighton five shaft

James Bullock, senior process evaluator, industrial engineering, Copper Cliff

Daniel Canapini, crushing plant foreman, Clarabelle mill

Calvin Carmichael, safety foreman, Levack mine

James Carpenter, crushing plant foreman, Clarabelle mill

Douglas Chiasson, mine foreman, Garson mine

Valentine Clancy, specialist assistant, central maintenance

Allister Cruthers, superintendent of operations, copper refinery

Gary Cull, process foreman, Copper Cliff smelter

Donald Danko, superintendent, systems development, Copper Cliff

Raymond Deredin, safety foreman, Little Stobie mine

Norm Dever, safety foreman, copper refinery

Patrick Dinan, safety foreman, Copper Cliff South mine

Glenn Elliot, safety foreman, Levack mine

Fedele Falvo, senior process assistant, process technology, Copper Cliff

Ann Forster, technical services clerk, Copper Cliff

Edouard Frappier, process foreman, Copper Cliff smelter

Hank Grimard, safety foreman, iron ore recovery plant

Edward Hodkin, superintendent, refining, copper refinery

Bruce Hoffard, mine foreman, Little Stobie mine

Marcel Houle, process foreman, Copper Cliff smelter

Eric Jacobson, safety foreman, Levack West mine

Peter Jowsey, senior industrial evaluator, industrial engineering, Copper Cliff

Stanislav Keckes, process chemist, copper refinery

Gerald Kenyon, maintenance general foreman, Copper Cliff smelter

Kurt Koski, crushing plant foreman, Clarabelle mill

Dale Krueger, general foreman, copper refinery

Robert Lacelle, mine foreman, Levack mine

Wayne Lavallie, maintenance foreman, Garson mine

Normand Lajeunesse, maintenance foreman, copper refinery

Daniel Lavigne, safety foreman, Creighton five shaft

Shahan Legault, maintenance foreman, Clarabelle mill

Lindsay McCafferty, maintenance general foreman, Copper Cliff mill

Timothy Merla, maintenance foreman, matte processing

Kerry Moxam, tank house foreman, copper refinery

Michael Peters, agricultural technician, Copper Cliff

Raymond Picard, senior specialist, central maintenance

Peter Pula, manager engineering, Copper Cliff

James Rawlick, crushing plant foreman, Clarabelle mill

Cecil Reeves, safety foreman, Levack West mine

Dennis Salem, mill foreman, central mills, Frood-Stobie mill

Sidney Segsworth, superintendent casting and transportation, copper refinery

Victor Seguin, process foreman, Copper Cliff smelter

Tony Stopclatl, process foreman, Copper Cliff smelter

Sam Stupavsky, superintendent process technology, copper refinery

Suzanne Tessler, senior process assistant, process technology, Copper Cliff

Frans Vande Weghe, industrial evaluator, industrial engineering, Copper Cliff

James Wilson, maintenance foreman, Clarabelle mill

The annual conference of the Institute of Chartered Accountants of Ontario was held for the first time in Sudbury. Institute members were given the opportunity to hear presentations by Inco representatives in the technical sessions and tour Inco Metals' surface and underground facilities.

The host of the conference was the Sudbury and District Chartered Accountants Association. The association's president, Tom Newburn, an assistant comptroller at Inco, was pleased with the two-day conference.

"It was a huge success. We were very pleased with the turnout, as some 600 chartered accountants from throughout the province came to the conference," Tom said. "The conference is a serious attempt to upgrade members' knowledge by providing annual updating sessions on accounting and auditing practices."

The conference members' response to the Inco tours was excellent said Tom. "The Inco tours were very much appreciated and the hospitality shown was first-class."

Institute of Chartered Accountants of Ontario



Bill Halman, a training instructor at Copper Cliff South mine, left, explains the operation of a cap lamp to delegates of the Institute of Chartered Accountants of Ontario. They are, second from left: Mary Colleen Shanahan, Ken Oswell, Bernie Lafferty, John Davies and Ken McIntyre.



Rolly Lariviere, a trackless jumbo driller at Copper Cliff South mine, left, explains underground drilling procedures to members of the Institute of Chartered Accountants of Ontario.



General foreman Ron Geddes, right, answers questions on mining operations in a lunchroom underground at Copper Cliff south mine from members of the Institute of Chartered Accountants of Ontario.

Industrial and Mine Ventilation Conference

The second annual Industrial and Mine Ventilation Conference, sponsored by Cambrian College of Applied Arts and Technology and Laurentian University, was held recently with over 50 visitors from Canada and the United States attending.

During the five day conference, the visitors attended technical meetings consisting of lab and classroom sessions on the principles of industrial and mine ventilation. The meetings were conducted by members of the conference's instructional staff.

One of the instructors, Sonny Mukherjee, Inco's environmental co-ordinator and a member of the conference's planning staff, said the conference was an in-depth study of proper industrial and mine ventilation. "Proper ventilation is very important for mines and industry. The conference was established to give people the opportunity to learn more about ventilation design. This gives them a greater knowledge of solving ventilation problems in their own areas, whether it be in industry or in mines," Sonny said.

The agenda also includes tours of Inco's underground and surface facilities to observe the practical applications of industrial and mine ventilation.



The underground tour of Creighton mine included a walk through the return air transfer drift at the 6,400 foot level at nine shaft.



Delegates to the Industrial and Mine Ventilation Conference get a first hand look at a mechanized cut and fill chute on the 6,400 foot level at Creighton nine shaft.



Conference guests observe a ventilation pipe on the gangway at the 6,400 level at Creighton nine shaft.



Conference delegates observe an in-the-hole drill used to widen in the return air raise at the 6,400 foot level at Creighton nine shaft.



Terry McKinty, general manager of the Pan Am Track Association, tries out the track at Laurentian University where the games will be held.

Inco helps bring Pan Track and Field Cha

On August 29th, 500 athletes from across the western hemisphere, along with their coaches, trainers, family members and thousands of spectators will gather at Laurentian University's Stadium for the first ever Pan American Junior Track and Field Championships. The games were made possible by companies such as Inco Metals.

According to Terry McKinty, general manager of the Pan Am Track Association, the games may cost as much as \$350,000. Inco, along with two other large corporations donated \$20,000 each towards the games. The provincial government contributed \$104,000 and the Pan Am staff has been successful in raising another \$120,000. The remainder of the funds

must be raised by ticket and souvenir sales during the games.

"Without donations from companies such as Inco, it would have been impossible for the games to be held in Sudbury," says Terry. "And although the city hasn't given a cash donation, they have put in about \$30,000 for renovations to the track facilities and the stadium."

Says Terry, the games being played here are modelled after the European Junior Track and Field Competitions and may well be one of the two top junior events held in the world.

Several years ago, The Pan American Games Commission decided to expand the level of competition to include junior games. After the decision, Canada was chosen as the country to hold the first games.

"There were only five or six adequate facilities in the country and it was felt that some of these were too large. The commission feared that these games might become lost in the many events a larger centre would be holding during the summer months. They felt that a larger city wouldn't be able to rally the community around such a sporting event."

Sudbury, meanwhile had an excellent reputation for the events previously sponsored here. Over the years, it has hosted provincial, national and international athletic meets, one of which was the women's track meet between East Germany and Canada in 1975. The Pan Am Commission also felt that Sudbury was an appropriate sized community, one which would give the games a "fairly high profile".



The staff of the Pan Am Games office at Civic Square in Sudbury have been busy with the mammoth organizing job.

American Junior Championships to Sudbury

Pan Am officials have booked all of the Laurentian University residence area for the purpose of turning it into a mini athletes village. Special dining facilities are also being arranged. Most of the expected 3,000 out of spectators will stay in downtown hotels.

Although the athletes are coming from as far away as Brazil and Argentina, the Pan Am Commission expects none of the problems which have beset the Olympics in Moscow, says Terry. "In fact, the current Olympic problems may actually enhance the games here. Many of the countries are not sending athletes to Moscow. They now have extra money which they can use to send junior athletes to our games. There are no political problems involved in these games."

In the 33 track and field events featured, United States looks like the strongest contingent because of their experience. But, says Terry, it will be interesting to see the outcome of the competition between Canada and Cuba for second place. Cuba's recent winnings of gold medals during Olympic competition have resulted in an increase in the number of athletes from that country and it may be tough competition for Canada.

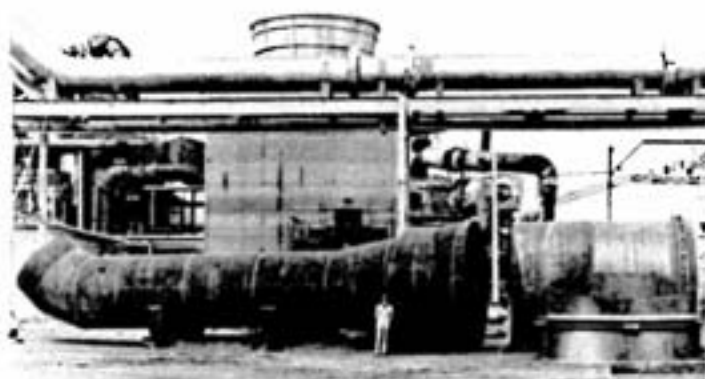
A Pan Am Festival has been slated for the last week of August. It will be held in the downtown area with the main aim being to create an interest in the games and get the public involved.

When the competitions are over in Sudbury, preparations for the second Pan American Junior Track and Field Championships to be held in Argentina in 1983, will already be underway.



Osmond Chan, a graphic artist with the city of Sudbury, created a series of posters to publicize the games.

PEOPLE



A new flue section is currently being installed on the stack at the Iron Ore Recovery Plant. The standard flue replacement is part of the return gas duct extending from the C.I.L. acid plant operation to the Inco stack. The flue section weighs some 35 tons and is approximately 100 feet long. **Fred Schuurman**, a senior process assistant at the Iron Ore Recovery Plant, above, poses in front of the flue section, to give some indication as to its size. The installation of the flue section is scheduled to be completed by mid-August.



At the last convocation ceremonies to be held at Copper Cliff High School, **Jim Kuzniar**, electrical engineering specialist in central maintenance, presented the Inco Metals' bursaries to students with the highest academic achievements. In photo are, back, from left; **Jim Kuzniar, Graham Murphy, Jane Byers, Brenda McLay, and Nancy-Jane Newburn.** In front are, from left, **Sharon Flindall, Rachel Shields, and Scott Arsenault.**



Inco Metals' tour centre at the McClelland Community Centre in Copper Cliff was recently visited by some 60 American members of the Avion Travelcade Club during their trip through Ontario and Quebec. The American visitors filled the tour centre parking lot with their Avion leisure trailers, 32 in all, then went on guided tours of Inco Metals' surface facilities. "The Inco tour was one of the highlights of our Ontario trip," said **Robert Dubuc**, Avion Travelcade Leader from Michigan. With Robert and his wife **Jean**, left, are fellow members of the Avion Travelcade Club: **Mike Fife**, with grandparents **Dora and Roland Colley** of Texas, and **Toots and Herb Blackstock** of Texas.



Mario Villeneuve, a crusherman at Garson mine, and his 14-member Sudbury Select Van Association raise funds for charities and help transport local disabled residents to and from their homes. Recently the Association raised funds to help the CNIB purchase a wood planer for its Opportunity Production Center. "Our goal is to give assistance to anyone who needs it," says Mario, who is president of the association. "We like to help the disabled by transporting them wherever they want to go. If only more people would give just a little of their time..." Mario uses his customized 1973 Dodge van, which he rebuilt for some \$11,000, to lend a hand to the less fortunate.

PEOPLE



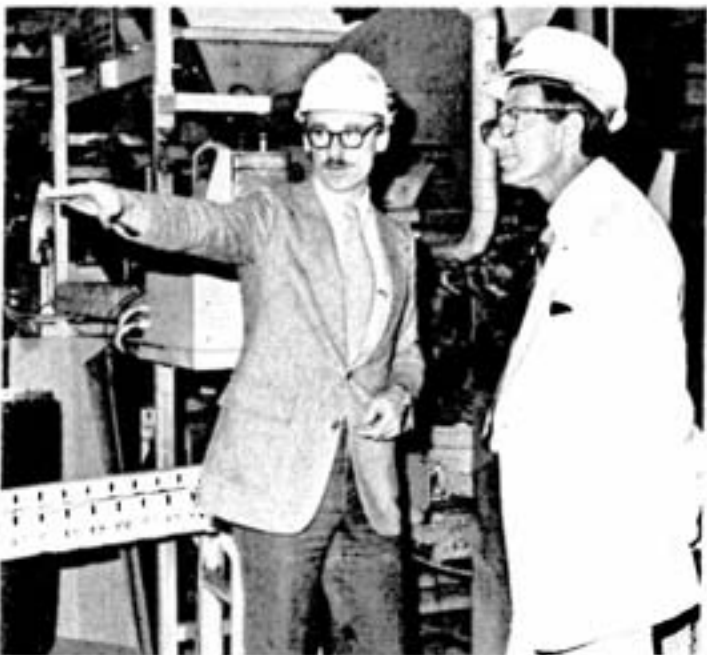
Lisa Armillotta, daughter of **Mike Armillotta**, an audiometric technician in the safety and plant protection department, has won an all expense paid trip to Italy. The grade five student at St. Francis Separate School was the top winner in an essay contest sponsored by the Italian government in co-operation with the Ontario Heritage Languages Program. Her essay was written entirely in Italian. Looking over the tour agenda with Lisa is father Mike, and **Mrs. Anna Taverna**, Lisa's teacher.



Glenn Strutt, left, superintendent of Levack mine, and **Clarence Vowels**, right, from the Town of Onaping Falls recreation advisory committee, discuss plans for the renovation of the Levack baseball field. Inco assisted in the planning of the new bleachers, as well as supplying construction materials to repair them. Each bleacher accommodates some 250 people.



Approximately 120 people participated in the 16th annual safety and plant protection golf tournament held recently at the Lively Golf Club. Tournament guests included members of the Workman's Compensation Board, the Sudbury Regional Police and the Ontario Provincial Police. The overall winner of the tournament was Don McKay of the Sudbury Regional Police who shot a 76. Here members of the safety and plant protection department begin a round of golf with secretary **Laura Diniro**, at right, teeing off. From left is **Jack Corrigan** of central services, **Janet Kenyon**, clerk steno, and **Norm Hillier**, manager of the safety and plant protection department.



Bill Kipkie, superintendent of process technology in the matte processing department, left, explains operation procedures in the FBR shipping area to **Bob Saracino**, mayor of Port Colborne, who recently toured Inco's Sudbury operations.

PEOPLE



The mine rescue team from the Creighton mine complex, winner of the 1980 Regional Mine Rescue Competition for Inco Mines, recently participated in the Provincial Mine Rescue Competition held in Thunder Bay. Although the team did not place first, they did do well, according to John Hallows, superintendent of the Sudbury mine rescue station, Ministry of Labour, who accompanied the team to the competition. "They acquitted themselves as excellent underground firefighters," John said. "The competition was a test of endurance and a fair test of the men's ability and knowledge of mine rescue. The Inco teams have always done well in the provincial mine rescue competitions, and this team was no exception." Pictured above, members of the mine rescue team from the Creighton mine complex test their equipment during the provincial competition. They are, from left: **Howard Scott, Leo Seguin and Al Simpson.**

During the recent Walden in the Park celebrations, a fireworks display presented by Inco Metals, in co-operation with the Walden Summer Festival Committee dazzled the many spectators. Involved in setting up the fireworks display are, from left, **Jim Haddow**, a member of the Walden Summer Festival Committee and a maintenance mechanic at the copper refinery, **Gerry Joliat**, fire chief for the town of Rayside Balfour and in charge of the fireworks, **Dick Trembley**, a member of the Walden Summer Festival Committee and a party leader at Copper Cliff South mine, **Nazare Belanger**, a sand plant operator at the Levack mine complex and **Remi Lemaire**, who works at Falconbridge Nickel Mines Ltd.



Summer students in Inco's agriculture department were at the Port Colborne nickel refinery recently with a new assortment of plants to enhance the office and hall ways of the main office building. Preparing the plants for placement are **Darlene Thompson**, right, a biology major at Queens University and **Cathy Laing**, a second year wildlife and biology student at Guelph University. Cathy is the daughter of Ian Laing, assistant division comptroller.



PEOPLE



Brian Kozicki, 13, son of Zane Kozicki, a motorman at Levack mine, recently completed a year as school patrolman at Lindsley Public School in Onaping. Brian ensured the safety of fellow Lindsley Public School students at road crossings in the Levack-Onaping area as they walked to and from the school bus. For his efforts, Brian received a letter of merit and a monetary payment for a job well done, from the Ministry of Transportation and Communications.



The first annual Ontario Pitch-In Day was held June 7. Thousands of concerned citizens throughout the province helped clean up roadsides, ditches and river banks in their areas. "The Ontario Pitch-In Day is a joint venture between the Ontario Federation of Anglers and Hunters and the Ontario Ministry of the Environment," explained **Doug Ogston**, president of the Ontario Federation of Anglers and Hunters and shop controller at Inco's divisional shops in Copper Cliff. Inco Metals helped the cleanup effort in the Sudbury area by donating trucks, garbage bags and barrels. The group in the photo are members of the Creighton-Lively Conservation Club. They cleaned up five miles of road west of the Creighton mine complex leading to the Vermilion River and boat launch.



At Nickel Park in Copper Cliff, construction of the new Little League Park, site of the 1980 Canadian Little League Baseball Championship, is in its final stages. The Canadian Little League Baseball Championship is presented by the Copper Cliff Little League Baseball Club, and Inco Metals Company is a major sponsor. The tournament will be held August 16-23. In addition to providing funding, the Company is also donating men and expertise to help in certain stages of the construction.



Idea + Ride + Work =

Take an idea, a love of animals and a desire to raise money for charity. Mix well — let incubate — and you have the RCMP Musical Ride in Sudbury.

These seemingly unrelated things all came together on June 13 and 14 when the Rotary Club of Sudbury, with financial help of Inco Metals Company, presented the RCMP Musical Ride at the Laurentian University sports stadium, with proceeds going to the Ontario Society for Crippled Children.

The idea to bring the musical ride to Sudbury originated with Jan Van Cruyningen, a director of the Rotary Club in Sudbury and a concept engineering milling specialist at Inco.

"Every two years the Rotary Club runs a major fund raising project," said Jan. "It's up to the members to come up with an idea, and this time it was my turn."

When asked how he thought up the idea to bring the Musical Ride to Sudbury, Jan indicated modestly that it developed from his fondness for animals.

"I've always liked animals," Jan stated, "and horses in particular. I used to have my own horses but sold them when my children grew up. I know how popular horses are with people, so the RCMP Musical Ride seemed like a natural winner."





Money for Charity

Two years of planning and preparation went into the project. Jan and his committee of 25 volunteers worked out all the details as to location, timing and accommodations for the 42 men and 36 horses that are the RCMP Musical Ride.

Gradually things fell in place as the time went by. But Jan admits that if it wasn't for Inco's financial commitment to sponsor the ride, the planning couldn't have proceeded past the concept stage.

"Once we knew we had Inco's financial help, things were almost guaranteed to be successful," said Jan. "The company provided us with the financial base we needed to proceed. If the weather had been poor, our attendance would have been down and we would have lost money. But Inco's support ensured that we would at least break even."

As it turned out the weather was perfect and people turned out in droves. Jan estimates that more than 7,000 saw performances over the two day period.

"As a result," said Jan, "this was the most successful single event that the club has participated in. We made between \$10,000 and \$12,000 for the Ontario Crippled Children's Society. And in the end that's really what matters."



Family Day at M

The matte processing department at the Copper Cliff smelter held its Family Day May 31 with approximately 250 employees and their families partaking in the day's activities.

After travelling by tour bus from the Copper Cliff general offices, visitors went on self-guided or guided tours of the matte processing department, viewed safety displays and the film 'The Winning of Nickel'. Visitors relaxed with refreshments and donuts after the tours.

"We had a good turnout for Family Day," said Orval Couture, process foreman in charge of induction and training. "We had many requests as to when the next Family Day will be held. We hope to have another Family Day within the next two years."



Process foreman and guide Wally Szumilo, left, explains matte processing operations to his mother Patricia and dad John (seated) as Katherine and Steve Bilyj look on.



Members of the Demers family get a first hand look at crushed matte. They are, from left: Danny, Helene, Gilles and dad Andre who works in the flotation department.

Matte Processing



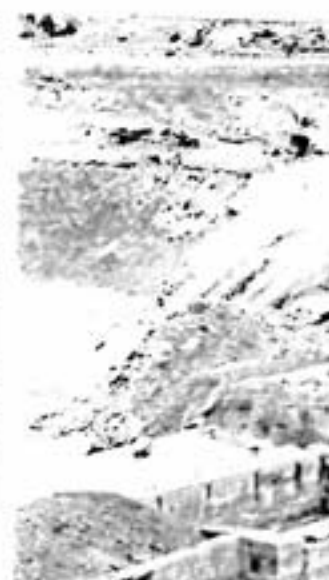
Phil Lapointe, left, of matte processing, wife Ivey and her brothers Jason and Chris Marsales observe disc filter operations.



Wally Szumylo, process foreman and guide, left, explains the functions of the control panel in the matte processing control room to, from left: John and Anna Kanerva, Eleanor Brassard, Bruce McDougall, Susan McDougall and dad Harry McDougall. At right is control room operator Dennis St. Jean.



Non-electrical sequential blasting in progress: In the first photo, surface delays are ignited showing no surface movement. In the second photo, the first hole (black smoke) in the blast is detonated. The third photo depicts the outward movement of rock. The last photo indicates a more horizontal movement. The delay sequencing has allowed proper time for one row to move out before the next row is detonated.



Non-electrical sequential

The explosive mixture of ammonium nitrate and fuel oil is fed from an extension of the bulk truck into the blasting hole. Overseeing the operation is, from left: John McPhee of Du Pont Canada Inc., summer student Bob Seccaspina, a labourer at the Clarabelle Open Pit, and John Zimany, a driller and blaster boss at the same pit.

Members of the Clarabelle Open Pit blasting crew assist in loading the bore holes with an explosive mixture of ammonium nitrate and fuel oil. The explosive mixture is force fed through a hose from the bulk truck to the blasting hole. Behind the bulk truck is the rotary drill used to bore holes some 40 feet through the bench.





blasting

From a distance the face of the open pit looks immovable. Millions of years have gone by and still the rock hasn't changed significantly. The warning siren sounds and shortly after the solid rock disintegrates.

Such is the scene at Clarabelle Open Pit, where Inco Metals has recently implemented a different and effective technique in open pit blasting. The new technique, called non-electrical sequential blasting, was developed by a local explosive manufacturing company and introduced by Inco's mines engineering research and development group.

The term non-electrical sequential blasting is easily definable. "Non-electrical simply means replacing the wire in the hole with a detonating cord that burns 22,000 feet per second," explains Terry Exworth, Inco's research and development project engineer with the mines engineering department. "Sequential refers to timing the explosives of individual charges in the hole. Blasting means the actual detonating of the primer or booster charge which sets off the explosives in the holes. In

other words, it's a non-electrical way of achieving proper delays between the detonation of each blasting hole and the subsequent rows of holes."

According to Don McGinn of the engineering office at Clarabelle Open Pit, non-electrical sequential blasting is proving to be quite effective. "It has reduced vibrations from the blast because it doesn't all go off at once. We are able to limit the total amount of explosives per delay by delaying the individual holes," Don says. "It has also reduced the amount and size of throw rock or fragments created by the blast. We have achieved better rock breakage with smaller fragments which makes handling and transporting easier and reduces secondary blasting.

"When we put a long delay, which may be 175 milliseconds, between rows, the first row moves out, creating an open face for the next row, and with proper delay time we are able to decrease back pressure created by the explosion of the first row," Don explains.

The overall movement of the bench is improved, Terry adds, since the blast travels in a horizontal rather

than a vertical direction. "This controlled blasting technique leaves the pit wall intact, without creating excessive breakage, which in turn ensures a good pit slope and also avoids damage to surrounding structures."

The blasting holes, approximately nine inches in diameter, are drilled some 40 feet through the bench in a set pattern, creating an area to blast. Once blasted, the excavation becomes part of a series of benches, or steps in the pit wall.

Primers, each containing a blasting cap, are placed in the holes first, then a bulk slurry or a pre-mixed explosive is added as well as another explosive mixture of ammonium nitrate and fuel oil. A surface trunkline containing detonating relays (a delay which is activated by the trunkline) initiates the priming cord and the delay down the hole. The two delays combine to give the proper timing of each hole.

"Non-electrical sequential blasting is satisfying our objectives at Inco to make blasting safer, less expensive and more effective in our mining operations," Terry concludes.

1980 Pensi

The 1980 Inco Pensioners' Days were held the week of June 16 at the Inco Club in Sudbury. Pensioners from all company locations and departments were on hand to renew acquaintances, tour the copper refinery and the smelter and just generally have a good time.



Gladys Sylvestri, left, and Emily Mihelchic welcome pensioners Evelyn Fox, left, seated, and Marj Hawkins.



Pensioners Will Lemieux, left, Ted Trudel, centre, and George Riopel inspect a locomotive in the transportation department.



John MacDougall, vice president of engineering and maintenance services, extends a hearty welcome to pensioner Mary Whalen.

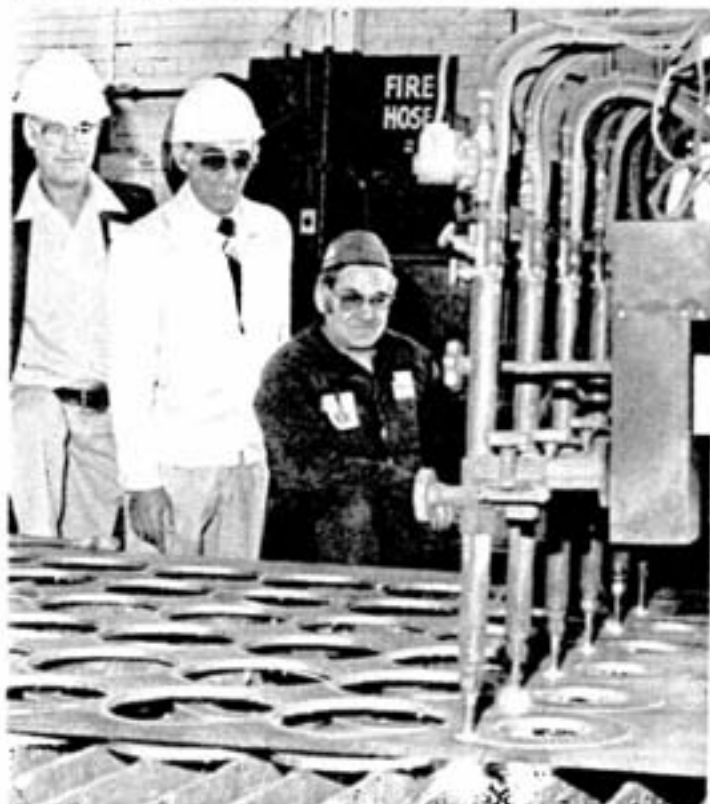
oners' Days



Toasting the camera with their souvenir mugs are, from left, Alex McDonald, Bruno Fragomeni and Merrill Gamble.



Pensioner George Kleber, left, has a few words with Bud Lang, a maintenance mechanic at the Copper Cliff smelter.



Milne Sawyer, left, and Sabino Romani get a first hand look at a multi-head torch operated by Leo Gendron of the plate shop.



Pensioners Jerry Kenyon, left, Jack Campbell, centre, and George Husson exchange greetings.

IN TOUCH

PENSIONERS GOLF TOURNAMENT



Date: TUESDAY, AUGUST 19, 1980

Place: LIVELY GOLF AND COUNTRY CLUB

Time: SHOT GUN START AT 8:00 a.m.

Cost: \$6 per person,
(includes green fees and dinner)

APPLICATION FOR

In Touch Retirees' Golf Tournament

August 19, 1980

Lively Golf and Country Club

NAME..... PHONE

ADDRESS

Entry fee of \$6 must accompany application

Entry Received: Date..... Time

Applications
must be received
by August 14.

Mail your applications to:
Rusty Dubery

202 First Avenue
Box 905 Lively, Ontario
P0M 2E0



Rick Racicot, a driller at Frood mine, is an antique buff. The barber chair on which he is sitting, was bought at none other than a barber shop. Rick has since had the chair rechromed and reupholstered, and it will soon be placed in the family's recreation room. Rick also collects antique bottles, radios, and furniture. Rick and his wife Sue, who also works, spends much of their leisure time travelling and camping with their two-year old daughter, Stella.



Ray McKerral, a garage mechanic at the Garson mine complex, spends much of his spare time camping and fishing with his family. Ray's wife, Janet, enjoys the privacy and freedom on their farm near Markstay. Daughter Nancy, 15, left, is attending Garson-Falconbridge High School. Gail, 18, top centre, will be pursuing the accounting program at Cambrian College this fall. Both girls enjoy camping with their folks in the family trailer. Karen, who is 20 years old and employed in Sudbury, is engaged to be married.

Family Album

Larry Virag is a 14 year veteran of the Port Colborne nickel refinery and holds a first-class electrician's post in the maintenance department. He has been spending a lot of time remodelling his home lately, but it's time well spent and he enjoys it. Last winter he took a personal interest night school course on solar heating, and a blue print reading course to help him out on the job. His wife Leta, works as a registered nurse two days a week and looks after the children and the household. In her spare time she enjoys sewing and quilting. The children are Sheri-Lynn, 6, Dayna, 2, and Alana, who is one year old.





This is what they started with . . .



From old

You can't help but stare at it because it's the type of car you don't see very often and in such good condition. A Triumph TR 3 - a 1961 vintage - stripped and rebuilt by Nancy Baird, an industrial evaluating analyst in the industrial engineering department, and her boyfriend George Darling, a planner at Copper Cliff South mine.

In 1974, George bought the car through a private sale for \$150 while attending university in Kingston. A few years later he met Nancy, and on one of their first dates showed her the unfinished Triumph parked in his garage.

Nancy was impressed with the car. "I felt the car had definite possibilities, so I offered to help George rebuild it although we knew very little about repairing cars in general. He thought it was a great idea so, with the help of a Triumph manual, we began working on the car two years ago on weeknights and weekends, averaging 20 hours of labor a week. We finished the car about six weeks ago. We went for a



This is what it looks like now!

to new

ride and it was a thrill," Nancy said. "George and I have long had an interest in older cars. My dad has been repairing his own vehicles for years, and I've acquired the same interest."

Nancy estimated some \$3000 had been spent on new parts which were ordered from a Triumph dealer in California. "It was difficult to find a dealer in Canada who carried Triumph parts for a 1961 model," Nancy said. "There was an additional expense with taxes and the exchange on the Canadian dollar."

The Triumph manual proved most useful, so the couple had little trouble repairing and refinishing the car. They rebuilt the transmission, installed new shocks, new brakes and linings, carburetors, tie rod ends and tires. They reconnected the lighting system for the back and front headlights.

The interior of the car was also repaired. New carpeting was installed and the dashboard refinished. "We tried to order a mahogany steering wheel but the supplier was out of

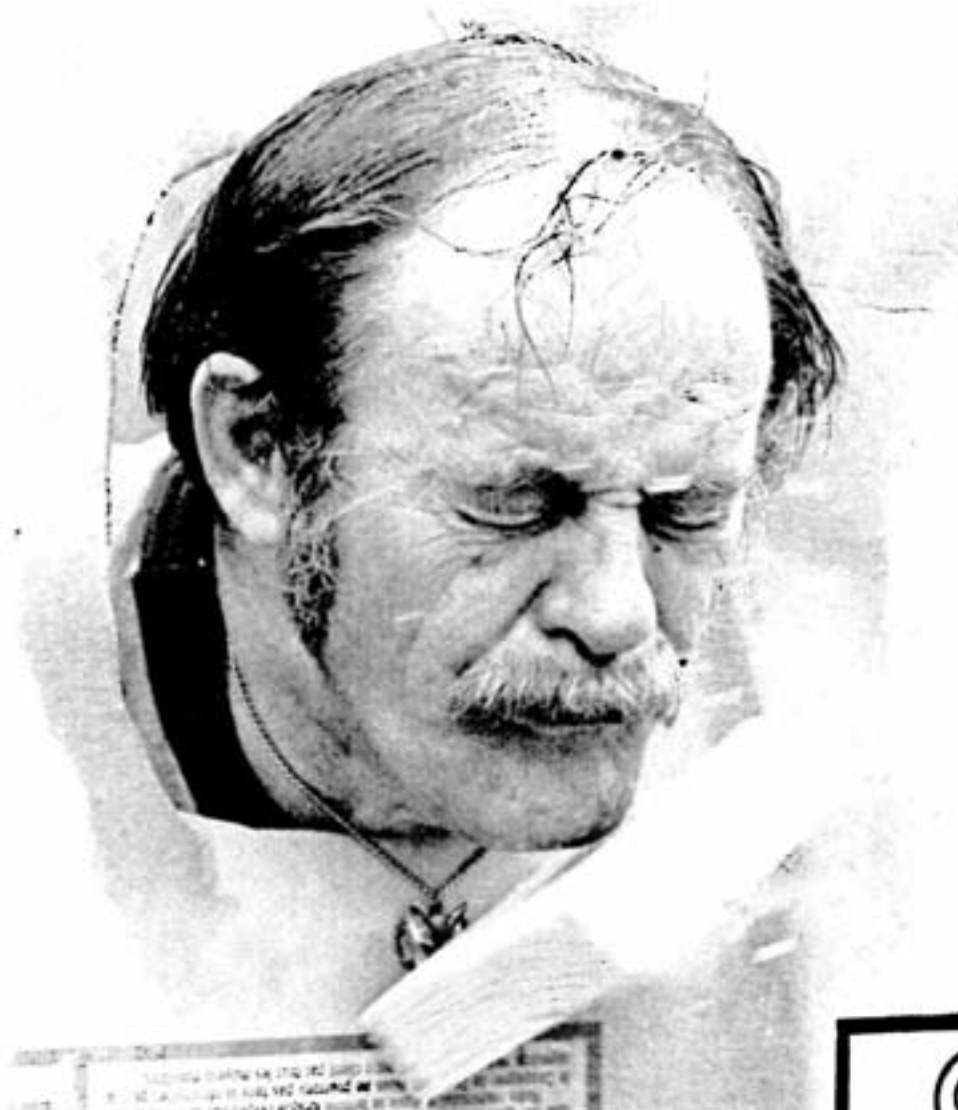
stock," Nancy explained. "We sanded down the entire car with six different kinds of sand paper, applied a body filler, then painted it with signal red, the name of the color used on Triumphs in 1961."

Although the car has some 60,000 miles, its engine is running well, so there's no need to buy a new one at the present time Nancy added. "And we're getting good mileage, about 30 miles to the gallon," she said.

Two years of car repair and rebuilding has been a good experience Nancy concluded. "I'd do it again because as you can see it was all worthwhile. I learned the meaning of patience, I learned how careful you must be when operating a vehicle because you really don't have much protection. I think you have to have some challenges in your life, and that one certainly was."

August 16 will be a special day for Nancy and George - they're getting married. Guess which vehicle will likely be used as the wedding car? Now if that isn't icing on the (wedding) cake!

Copper Cliff Mines Associatio



Smack! Ed Crewson, an electrician at Copper Cliff South mine, winces as he finds himself at the receiving end in the sponge throwing contest.



Races are always a popular event with the kids.

The Copper Cliff mines association held its annual picnic recently near Richard Lake with approximately 300 employees and their families attending.

"The lovely weather had a lot to do with the success of the picnic. We had a very good turnout and I think everyone enjoyed themselves," said Moe Jolly, president of the Copper Cliff mines association and chairman of the picnic's organizing committee. Moe is a cage tender at Copper Cliff South mine.



The picnic clown helps a little girl put her toy together.



Wally Laalo, a school slope instructor at Copper Cliff South mine, takes a break from the activities for refreshments with his grandchildren.

n Picnic — Lots of sun and fun

The day's activities included games and races for all ages such as a horse shoe tournament, a tug-of-war, a wheelbarrow race and the very popular sponge throwing contest.

The hot dogs and refreshments were also enjoyed. "Some 600 hot dogs and 1,000 soft drinks were consumed that day," Moe said. "Everyone went away content with full stomachs and prizes from the day's events."



Wally Laalo, a school stope instructor at Copper Cliff South mine, gives a safety talk on blasting caps to children at the picnic.



A youngster has fun on the slide during the picnic.



Gordon Godin
\$1,870



Mark Peura
\$245



Don Carlyle
\$220

July Suggestion Plan Awards

\$1,870	Gordon Godin	Frood mine	Fixed blowpipes in underground chutes
\$245	Mark Peura	I.O.R.P.	Install clean out before dissolving pump lines
\$220	Don Carlyle	Levack mine	Grease fitting on brake slack adjusters.
\$190	Werner Wittmer	Matte Proc.	Modifications to Eriez magnetic separator grids
\$150	Dave Baker	C.C.C.R.	Install tank for boiling copper strips by crystal tanks
\$150	Barney Forest	McCreedy West	Use stapler to repair fiberglass mine vent tubing
\$150	Stanley Smith	C.C.N.R.	Method to reuse segregator chute feed nozzle
\$140	Giuseppe Bulfon	C.C.C.R.	Install steel plate between tripping device on anode racks
\$140	Vince Guidoccio	Kirkwood mine	Eliminate muffler and bracket on mucking machine
\$140	Roger Leclair		
\$115	George Dodge	C.C.N.R.	Remove farvalls from converter rotates
\$105	Gino Gregorini	C.C.C.R.	Install a piece of metal to divide material on no. 3 system
\$105	John Tsiflis		
\$100	Dennis Kebble	Stobie mine	Install protective screen for fans on ST8 scoops
\$100	Arthur Richardson	C.C.N.R.	Install removable brackets for gantry corners at IPC

\$95 awards were presented to:
Don Peroni C.C.C.R.

\$80 awards were presented to:
Henri Valcourt Matte Proc.

\$75 awards were presented to:
Dennis Obonsawin C.C.C.R.

\$70 awards were presented to:
Michael Guyan C.C.C.R.
Joseph O'Bumswain Coleman mine
Marcel Henri
Luigi Ongaro C.C.N.R.
Martti Vanttinen

Aurel Paquette Stobie mine
Ernest Schwemline Matte Proc.

\$65 awards were presented to:
Rocco Bozzo C.C.N.R.
Rocco Bozzo C.C.N.R.
Reginald Park I.O.R.P.
Raphael Busschaert



Dave Baker
\$150



Stan Smith
\$150



Barney Forest
\$150

\$60 awards were presented to:

Joe Barriault	C.C. smelter
Charles Bedard	C.C. smelter
Ron Carver	Matte Proc.
Stanley Goral	C.C.S.M.
Brian King	C.C. smelter
Lee Riehl	C.C.C.R.
Ron True	C.C. smelter
Marcel Servais	
Renaud Trudeau	I.O.R.P

\$55 awards were presented to:

Giovanni Bon	C.C.N.R.
Allen Kaven	Stobie mine
Carlo Masiero	C.C.N.R.
Rocco Bozzo	

\$50 awards were presented to:

John Allison	C.C.N.R.
Leonard Cameron	C.C. smelter
Chris Flick	C.C. smelter
Frank Daggett	
Raymond Gauthier	Matte Proc.
Roger Lalonde	Matte Proc.
Amedee Pilote	C.C.N.R.
Alfred Salewski	Matte Proc.
Stanley Smith	C.C.N.R.
Stanley Smith	C.C.N.R.
Lionel Spencer	Frood mine
James Fitzgerald	

\$45 awards were presented to:

Dan Brousseau	C.C.C.R.
Tom Regimbald	
Larry Lafleur	

Richard Chene	C.C.C.R.
Frank Daggett	C.C. smelter
Chris Flick	
Armand Fiset	Matte Proc.
Vince Guidoccio	C.C.C.R.
George Hawrelluk	C.C.C.R.
Marcel Lalande	Mtce. Field
Tony Perfetto	Creighton mine
Don Ushick	C.C. smelter
Ibeling Vanlaaten	C.C. mill
Barrie Way	C.C.C.R.

\$40 awards were presented to:

Leonard Bedard	C.C.C.R.
Maurice Jennings	C.C.N.R.
Tom Kennedy	Creighton mine
Roger Lascl	C.C.N.R.
Wayne Burke	
Alfred McLaughlin	Levack mine

\$35 awards were presented to:

Laurier Charette	Matte Proc.
Richard Thyne	
Chris Flick	C.C. smelter
Frank Daggett	
Lucien Fortin	C.C.C.R.
Gerald Morning	C.C. smelter
Amedee Pilote	C.C.N.R.

\$30 awards were presented to:

Jack Cresswell	C.C.N.R.
Eugene Kishynski	Garson mine
Gilles Grandmaison	

John McKibbin	Clarabelle mill
James Rafuse	Matte Proc.
Richard Thyne	
Laurier Charette	
David Rosien	C.C.N.R.
Heinz Rummel	C.C.C.R.
Martti Vanttinen	C.C.N.R.

\$25 awards were presented to:

Daniel Beaulieu	Clarabelle mill
Leonard Belanger	Matte Proc.
Keith Charette	C.C.C.R.
Leo Chevrier	Stobie mine
Donald Doiron	Matte Proc.
Fraser Dunlop	Stobie mine
Gilles Grandmaison	Garson mine
Stan Rice	
Patrick Granfield	C.C.C.R.
Kalevi Hellsten	C.C. smelter
Austin Lane	C.C.C.R.
Rick Leduc	C.C. smelter
Kirk Lidstone	Clarabelle mill
Denis Mchay	South mine
Daniel Gagne	
Alex Maslakow	Matte Proc.
Dan Nepssy	C.C.C.R.
Allen Oliver	C.C.C.R.
Gerry Surtees	C.C. smelter
Richard Thyne	Matte Proc.
Laurier Charette	
Michael Tuznik	C.C.C.R.

